



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/517,750	06/10/2005	Wolfgang Clemens	411000-122	6074
7590	06/20/2008		EXAMINER	
Carella Byrne Bain Gilfillan 5 Becker Farm Road Roseland, NJ 07068			HO, HOANG QUAN TRAN	
			ART UNIT	PAPER NUMBER
			2818	
			MAIL DATE	DELIVERY MODE
			06/20/2008	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

**DETAILED ACTION**

***Response to Amendment***

Applicant's amendment to the claims, filed on May 15, 2008, is acknowledged. Entry of amendment is partially accepted and made of record. Currently, claims 1 – 2 and 4 – 7 and 9 are pending in light of the amendment, in which: claims 1 – 2, 4 – 7 and 9 were amended; claims 3 and 8 were cancelled; no claim was withdrawn; and no claim was added. Partially accepted entry is claims 1 – 2, 4 and 6. Claims 5 – 7 and 9 are declined for entry.

Applicant has amended claims 5 – 7 and 9 to recite new limitations (e.g., "contiguous"). The amended claim requires further consideration and/or searching. Therefore, the aforementioned non-entry amended claims filed after a Final Rejection Office Action have not been entered. See MPEP § 714.13(II).

Applicant's amendment to the specification, filed on May 15, 2008, is acknowledged. Entry of amendment is accepted and made of record.

***Response to Arguments/Remarks***

Applicant's response filed on May 15, 2008 is acknowledged and is answered as follows.

Applicant's remarks, see pg. 8, with respect to the drawing showing underlayer has been considered. Therefore, the objection to the drawing with the underlayer has been rendered moot.

Applicant's remarks, see pg. 8, with respect to the drawing for fig. 1 legend has been considered and persuasive. Therefore, the objection to the drawing has been withdrawn.

Applicant's arguments, see pgs. 10 – 13. The Examiner does not intend to acquiesce to Applicant's filed arguments since they touch on the merits (e.g., the limitation "contiguous") of the amended claims 5 – 7 and 9, for which were not entered of record.

Furthermore, applicant's arguments argued that claim 1's function related to the coated organic layer being contiguous with the substrate. In response to Applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., contiguous) are not recited in the rejected claim(s). In addition, Applicant argued that the coated organic layer is not directly on or contiguous with the substrate as shown in fig. 1 of Bao. It is also noted that such positioning of layers are not recited in the rejected claim 1. Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Applicant argued that Bao's disclosure cannot increase the charge carrier mobility of the organic layer. The Examiner respectfully disagrees. See pg. 1300, right column of Bao's disclosure which explicitly teaches that such charge carrier mobility in the organic layer is increased due to the substrate.

Applicant argued that Bao's disclosure of the organic semiconductor layer is not on the substrate. The Examiner respectfully disagrees. The organic semiconductor layer is arranged on top of the substrate as seen in fig. 1. Therefore, it reads on the claimed limitations of the invention.

Applicant further argued that because the organic semiconductor layer is not directly on the substrate, such charge carrier mobility increase cannot have the claimed properties. The Examiner respectfully disagrees and would like to point out to the Applicant to pg. 1300, right column of Bao's disclosure which explicitly teaches that such charge carrier mobility in the organic layer is increased due to the substrate.

Applicant argues that the combination of Bao and Carey may have no relevance. The Examiner respectfully disagrees. The relevance of Carey is clearly suggested in Note 1 on pg. 8 of the Final Office Action. Bao is missing the explicit disclosure of a commonly used polyester substrate that have biaxially stretched and well-ordered properties. Carey discloses that such commonly used polyester substrate have those properties. Both Bao and Carey discloses TFT on polyester substrates, therefore are believed to be properly combined to teach the missing disclosure.

In view of the foregoing reasons, the Examiner believes that all Applicant's arguments and remarks are addressed. The Examiner has determined that the previous Office Action is still proper based on the above responses. Therefore, the rejections are sustained and maintained.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoang-Quan Ho whose telephone number is 571-272-8711. The examiner can normally be reached on Monday - Friday, 9 AM - 5 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Loke can be reached on 571-272-1657. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/HQH/  
Hoang-Quan Ho  
Assistant Patent Examiner  
June 16, 2008

/Andy Huynh/  
Primary Examiner, Art Unit 2818